

**Flood Control Project Maintenance
Levee Inspections**

Fall 2011 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0003	Overall LMA Rating	Total LMA Miles				
Sutter Maintenance Yard East Levee Sacramento River	A	27.17				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.05		0.05	0.18%		
Trim / Thin Trees	0.01		0.01	0.04%		
Encroachments	0.25		0.25	0.92%	0.49	0.26
Animal Control	0.95		0.95	3.50%		
Erosion / Bank Caving	0.19		0.19	0.70%		
<i>Supplemental</i>						
USACE Erosion Survey	0.45		0.45	1.66%		
LMA Totals:	1.90	0.00	1.90	6.99%	0.49	0.26

Unit No. 01 Sacramento River LB	Overall Unit Rating	Total Unit Miles				
ST0003	A	20.39				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.01		0.01	0.05%		
Trim / Thin Trees	0.01		0.01	0.05%		
Encroachments	0.25		0.25	1.23%	0.49	0.26
Animal Control	0.11		0.11	0.54%		
Erosion / Bank Caving	0.19		0.19	0.93%		
<i>Supplemental</i>						
USACE Erosion Survey	0.45		0.45	2.21%		
Unit Totals:	1.02	0.00	1.02	5.00%	0.49	0.26

Unit No. 02 Colusa Bypass RB	Overall Unit Rating	Total Unit Miles				
ST0003	A	2.20				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.01		0.01	0.46%		
Animal Control	0.01		0.01	0.46%		
Unit Totals:	0.02	0.00	0.02	0.91%	0.00	0.00

Unit No. 03 Colusa Bypass LB	Overall Unit Rating	Total Unit Miles				
ST0003	A	2.28				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Vegetation	0.02		0.02	0.88%		
Unit Totals:	0.02	0.00	0.02	0.88%	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2011 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 04 Moulton Bypass RB		Overall Unit Rating	Total Unit Miles				
ST0003		A	0.30				
Rated Item		M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
						PO Miles	CO Miles
<i>Earthen Levee</i>							
Vegetation		0.01		0.01	3.33%		
<i>Unit Totals:</i>		0.01	0.00	0.01	3.33%	0.00	0.00

Unit No. 05 Moulton Bypass LB		Overall Unit Rating	Total Unit Miles				
ST0003		U	2.00				
Rated Item		M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
						PO Miles	CO Miles
<i>Earthen Levee</i>							
Animal Control		0.83		0.83	41.50%		
<i>Unit Totals:</i>		0.83	0.00	0.83	41.50%	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2011 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	20.39
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/11/2011 - 4/11/2011		11/15/2011 - 11/15/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Yard		Bryan Reniff Sutter Yard	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Sacramento River						Left	20.39	11/15/2011 11/15/2011	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.08	0.14	Earthen Levee	Encroachments	WS	CO	Buildings	39.194978 ° -121.937502 °	39.195022 ° -121.938563 °	3 Y
2	2.05	2.05	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.187778 ° -121.968492 °	39.187778 ° -121.968492 °	8 Y
3	3.03	3.03	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.193945 ° -121.983368 °	39.193945 ° -121.983368 °	23 Y
4	3.06	3.12	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.194353 ° -121.983593 °	39.195200 ° -121.983993 °	24 Y
5	4.19	4.19	Earthen Levee	Encroachments	WS	PO	Buildings	39.208935 ° -121.985310 °	39.208935 ° -121.985310 °	11 Y
6	4.66	4.84	Earthen Levee	Encroachments	CR	CO	Buildings	39.213265 ° -121.991672 °	39.213265 ° -121.991672 °	12 Y
7	4.68	4.84	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	39.213633 ° -121.992332 °	39.214243 ° °	17
8	4.68	4.84	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	39.213550 ° -121.991995 °	39.214243 ° -121.993828 °	13
9	4.81	4.81	Earthen Levee	Encroachments	LS	CO	Buildings	39.214168 ° -121.993515 °	39.214168 ° -121.993515 °	20 Y
10	4.81	4.81	Earthen Levee	Encroachments	LS	PO	Landscaping	39.214218 ° -121.993682 °	39.214218 ° -121.993682 °	22
11	4.84	4.84	Earthen Levee	Trim / Thin Trees	WS	M	Trim trees to at least five feet above ground level.	39.214232 ° -121.993805 °	39.214215 ° -121.993810 °	18
12	5.37	5.37	Earthen Levee	Encroachments	LS	C	Prunings	39.217235 ° -122.003672 °	39.217235 ° -122.003672 °	19
13	6.33	6.33	Earthen Levee	Encroachments	LS	M	Prunings	39.223540 ° -121.999028 °	39.223540 ° -121.999028 °	14
14	6.42	6.42	Earthen Levee	Encroachments	LS	M	Material	39.224982 ° -121.998600 °	39.225013 ° -121.998585 °	21 Y
15	8.76	8.76	Earthen Levee	Encroachments	LS	CO	Buildings	39.252260 ° -121.997721 °	39.252260 ° -121.997721 °	2
16	9.23	9.23	Earthen Levee	Encroachments	LS	M	Prunings	39.257977 ° -122.000322 °	39.257977 ° -122.000322 °	1 Y
17	10.27	10.27	Earthen Levee	Encroachments	LS	PO	Buildings	39.270431 ° -121.999782 °	39.270431 ° -121.999782 °	4
18	10.36	10.36	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	39.270503 ° -122.001339 °	39.270503 ° -122.001339 °	5

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River				Left	20.39	11/15/2011 11/15/2011	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
19	10.47	10.64	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009 - Toe erosion and sliding cobbles. 2011: No observed change. [2011 Site ID: SAC_150-2_L]	39.271494 ° -122.003497 °	39.271307 ° -122.003295 °	27 Y
20	11.51	11.77	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011: Site extended downstream. [2011 Site ID: SAC_152-6_L]	39.279910 ° -122.018221 °	39.283853 ° -122.016113 °	28 Y
21	11.67	11.90	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.282064 ° -122.016517 °	39.285084 ° -122.014815 °	6
22	11.81	11.83	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011: Minor new erosion. [2011 Site ID: SAC_152-8_L]	39.285298 ° -122.015208 °	39.284568 ° -122.015690 °	29 Y
23	11.95	12.18	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.285658 ° -122.014574 °	39.288978 ° -122.013892 °	7
24	13.47	13.66	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	39.307448 ° -122.013037 °	39.310231 ° -122.012912 °	9 Y
25	13.87	13.87	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.313415 ° -122.012947 °	39.313415 ° -122.012947 °	25 Y
26	16.21	16.21	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.343098 ° -122.024272 °	39.343098 ° -122.024272 °	15
27	18.00	18.08	Earthen Levee	Encroachments	LS	M	Firewood	39.358956 ° -122.007492 °	39.359565 ° -122.006219 °	10
28	18.04	18.18	Earthen Levee	Encroachments	LS	M	Equipment	39.359188 ° -122.006878 °	39.359980 ° -122.004517 °	16 Y
29	18.80	18.80	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.364865 ° -121.997788 °	39.364865 ° -121.997788 °	26

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.08
End Levee Mile	0.14
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of a old building next to the landside toe.

rduffey_f_20110927_215.jpg



Levee Mile Report Line	2
Start Levee Mile	2.05
End Levee Mile	2.05
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodent holes & bait station.

rduffey_f_20111121_482.jpg



Levee Mile Report Line	3
Start Levee Mile	3.03
End Levee Mile	3.03
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of the rodent holes & bait station.

rduffey_f_20111121_483.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	3.06
End Levee Mile	3.12
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodent holes & bait station.

rduffey_f_20111121_484.jpg



Levee Mile Report Line	5
Start Levee Mile	4.19
End Levee Mile	4.19
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the trailer next to the W/S toe.

rduffey_f_20110927_217.jpg



Levee Mile Report Line	6
Start Levee Mile	4.66
End Levee Mile	4.84
Location	Crown
Category	Earthen Levee
Item	Encroachments

View of the barn on the large crown of the levee.

rduffey_f_20110927_218.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	9
Start Levee Mile	4.81
End Levee Mile	4.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the building next to the L/S toe.	
rduffey_f_20110927_220.jpg	



Levee Mile Report Line	14
Start Levee Mile	6.42
End Levee Mile	6.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the material & garbage along the toe.	
rduffey_f_20110927_221.jpg	



Levee Mile Report Line	16
Start Levee Mile	9.23
End Levee Mile	9.23
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the prunings along the L/S toe.	
rduffey_f_20110927_214.jpg	

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	19
Start Levee Mile	10.47
End Levee Mile	10.64
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

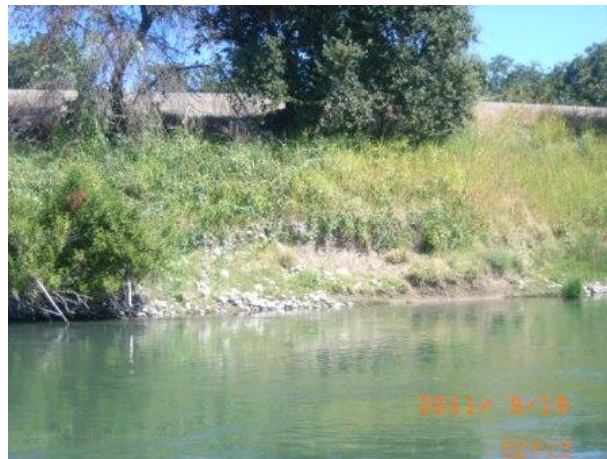
USACE2011_SAC_150-2_L_1.jpg



Levee Mile Report Line	19
Start Levee Mile	10.47
End Levee Mile	10.64
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011_SAC_150-2_L_2.jpg



Levee Mile Report Line	20
Start Levee Mile	11.51
End Levee Mile	11.77
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011_SAC_152-6_L_1.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	20
Start Levee Mile	11.51
End Levee Mile	11.77
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011_SAC_152-6_L_2.jpg



Levee Mile Report Line	20
Start Levee Mile	11.51
End Levee Mile	11.77
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011_SAC_152-6_L_3.jpg



Levee Mile Report Line	22
Start Levee Mile	11.81
End Levee Mile	11.83
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011_SAC_152-8_L_1.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	22
Start Levee Mile	11.81
End Levee Mile	11.83
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

USACE2011_SAC_152-8_L_2.jpg



Levee Mile Report Line	22
Start Levee Mile	11.81
End Levee Mile	11.83
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

USACE2011_SAC_152-8_L_3.jpg



Levee Mile Report Line	24
Start Levee Mile	13.47
End Levee Mile	13.66
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the W/S toe.

rduffey_f_20110927_216.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	20.39	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	25
Start Levee Mile	13.87
End Levee Mile	13.87
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of the rodents hole along the W/S slope.

rduffey_f_20111121_492.jpg



Levee Mile Report Line	28
Start Levee Mile	18.04
End Levee Mile	18.18
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the equipment and trees next to the landside toe of the levee.

rduffey_f_20110927_219.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 02 Colusa Bypass			Right	2.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/12/2011 - 4/12/2011		11/15/2011 - 11/15/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Yard		Bryan Reniff Sutter Yard	

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Colusa Bypass						Right	2.20	11/15/2011 11/15/2011	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.01	0.01	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	39.232058 ° -121.995514 °	39.232058 ° -121.995514 °	1 Y
2	0.61	0.61	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	39.231420 ° -121.984697 °	39.231420 ° -121.984697 °	4 Y
3	0.72	0.72	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	39.231403 ° -121.982587 °	39.231403 ° -121.982587 °	2
4	0.74	0.74	Earthen Levee	Encroachments	WS	C	Debris	39.231403 ° -121.982305 °	39.231403 ° -121.982305 °	3

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Colusa Bypass	Right	2.20	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	0.01
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the elderberries along the landside toe of the levee.

rduffey_f_20110927_222.jpg



Levee Mile Report Line	2
Start Levee Mile	0.61
End Levee Mile	0.61
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of both levee slopes.

rduffey_f_20111121_497.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 03 Colusa Bypass			Left	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/12/2011 - 4/12/2011		11/15/2011 - 11/15/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Yard		Bryan Reniff Sutter Yard	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.28	11/15/2011 11/15/2011	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.58	0.94	Earthen Levee	Crown Surface / Depressions / Rutting	CR	C	Add appropriate gravel or road base. Grade and compact.	39.237300 ° -121.983615 °	39.238705 ° -121.977045 °	1
2	0.58	0.94	Earthen Levee	Crown Surface / Depressions / Rutting	CR	A	Add appropriate gravel or road base. Grade and compact.	39.237300 ° -121.983615 °	39.237300 ° -121.983615 °	2 Y
3	1.98	1.98	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	39.244888 ° -121.965595 °	39.244888 ° -121.965595 °	10 Y
4	2.17	2.17	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	39.244838 ° -121.962072 °	39.244838 ° -121.962072 °	13

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Colusa Bypass	Left	2.28	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	2
Start Levee Mile	0.58
End Levee Mile	0.94
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting
Sutter Yard placed new gravel on the crown roadway.	
rduffey_f_20111121_496.jpg	



Levee Mile Report Line	3
Start Levee Mile	1.98
End Levee Mile	1.98
Location	Land Side
Category	Earthen Levee
Item	Vegetation
View of the elderberries along the landside toe of the levee.	
rduffey_f_20110927_225.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 04 Moulton Bypass			Right	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/11/2011 - 4/11/2011		11/15/2011 - 11/15/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Yard		Bryan Reniff Sutter Yard	

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass						Right	0.30	11/15/2011 11/15/2011	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.02	0.02	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	39.338141 ° -122.021852 °	39.338141 ° -122.021852 °	2 Y
2	0.05	0.05	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	39.338033 ° -122.021305 °	39.338033 ° -122.021305 °	1 Y

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	PO : Partially Obstructing CO : Completely Obstructing W : Watch/Monitor	N : Not Inspected, see Inspector Comment C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Moulton Bypass	Right	0.30	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of a Elderberries bush by the waterside toe.

rduffey_f_20110927_226.jpg



Levee Mile Report Line	2
Start Levee Mile	0.05
End Levee Mile	0.05
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of both levee slopes.

rduffey_f_20111121_493.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Sutter Maintenance Yard East Levee Sacramento River

Waterway			Bank	Unit Miles
Unit No. 05 Moulton Bypass			Left	2.00
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/12/2011 - 4/12/2011		11/15/2011 - 11/15/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Bryan Reniff Sutter Yard		Bryan Reniff Sutter Yard	

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

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Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.00	11/15/2011 11/15/2011	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.47	0.47	Earthen Levee	Vegetation	LS	A	Remove the wild growth other than native grasses from the levee slopes.	39.342553 ° -122.014480 °	39.342553 ° -122.014480 °	3 Y
2	0.79	1.58	Earthen Levee	Animal Control	LS	M	Repair the levee slope damaged by livestock and prevent large animal access.	39.340568 ° -122.009183 °	39.335837 ° -121.995885 °	1 Y
3	0.85	0.85	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	39.340210 ° -122.008117 °	39.340210 ° -122.008117 °	4 Y
4	0.85	0.85	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	39.340213 ° -122.008113 °	39.340213 ° -122.008113 °	5
5	1.06	1.06	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	39.338748 ° -122.004700 °	39.338748 ° -122.004700 °	6
6	1.08	1.08	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.338605 ° -122.004365 °	39.338605 ° -122.004365 °	2

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Sutter Maintenance Yard East Levee Sacramento River

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Moulton Bypass	Left	2.00	11/15/2011 11/15/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.47
End Levee Mile	0.47
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the levee slopes.

rduffey_f_20111121_494.jpg



Levee Mile Report Line	2
Start Levee Mile	0.79
End Levee Mile	1.58
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the levee slopes damaged by livestock.

rduffey_f_20110927_227.jpg



Levee Mile Report Line	3
Start Levee Mile	0.85
End Levee Mile	0.85
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of the rodents hole along the L/S slope.

rduffey_f_20111121_495.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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